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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/003,856	10/24/2001	Sanjive Agarwala	TI-28982	7440	
23494	7590 06/07/2004		EXAMINER		
TEXAS INSTRUMENTS INCORPORATED			HUYNH, KIM T		
P O BOX 655 DALLAS, T	5474, M/S 3999 X 75265		ART UNIT	PAPER NUMBER	
,			2112	6	
			DATE MAILED: 06/07/2004	2	

Please find below and/or attached an Office communication concerning this application or proceeding.

X

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		Application No.	Applicant(s)	(X		
		10/003,856	AGARWALA ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Kim T. Huynh	2112			
Period fo	The MAILING DATE of this communication Reply	on appears on the cover sheet w	ith the correspondence addres	SS		
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT nsions of time may be available under the provisions of 37 (SIX (6) MONTHS from the mailing date of this communicat period for reply specified above is less than thirty (30) days period for reply is specified above, the maximum statutory re to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no event, however, may a cion. s, a reply within the statutory minimum of thi period will apply and will expire SIX (6) MO y statute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this commu BANDONED (35 U.S.C. § 133).	unication.		
Status						
1)⊠	Responsive to communication(s) filed on	24 October 2001.				
2a)□	This action is FINAL . 2b)	This action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	 ✓ Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. ☐ Claim(s) is/are allowed. ✓ Claim(s) 1-13 is/are rejected. ☐ Claim(s) is/are objected to. ☐ Claim(s) are subject to restriction and/or election requirement. 					
Applicat	ion Papers					
10)⊠	The specification is objected to by the Extended The drawing(s) filed on <u>24 October 2001</u> Applicant may not request that any objection Replacement drawing sheet(s) including the other than the oath or declaration is objected to by the oath or declaration is objected to be o	is/are: a)⊠ accepted or b)⊡ of to the drawing(s) be held in abeya correction is required if the drawing	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1			
Priority (ınder 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International Elee the attached detailed Office action for	uments have been received. uments have been received in a e priority documents have been Bureau (PCT Rule 17.2(a)).	Application No n received in this National Sta	ge		
2) Notice 3) Infor	et(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-9- mation Disclosure Statement(s) (PTO-1449 or PTO/ cr No(s)/Mail Date	48) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-15) 	2)		

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DETAILED ACTION

Priority

1. This application filed under former 37 CFR 1.60 lacks the necessary reference to the prior application. A statement reading "This is a Non-provisional of Application No. 60/243,933, filed Oct. 27, 2000." should be entered following the title of the invention or as the first sentence of the specification. Also, the current status of all nonprovisional parent applications referenced should be included.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Robertson et al. (US Patent 6,496,740)

As per claims 1,8, Robertson discloses a data transfer controller comprising:

- a request queue controller capable of receiving, prioritizing and dispatching data transfer requests each specifying a data source, a data destination and a data quantity to be transferred; (col.15, lines 15-20)
- a data transfer hub connected to the request queue controller for receiving dispatched data transfer requests; (col.15, lines 21-22)

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 a plurality of ports having an interior interface connected to the data transfer hub which is so configured as to be the same for each port and an exterior interface configured for an external memory/device which, in operation, is connected to said port, the interior interface and the exterior interface being connected for data transfer therebetween; (col.15, lines 23-30)

- wherein the data transfer hub being capable of controlling data transfers
 from a source port corresponding to the data source to a destination port
 corresponding to the data destination in quantities corresponding to the
 data quantities to be transferred under a currently executing data transfer
 request; and (col.15, lines 31-35)
- wherein at least one of said plurality of ports consists of an active data port connected to said request queue controller capable of specifying a data source, a data destination and a data quantity to be transferred.
 (col.11, lines 9-26), (col.12, lines 43-55)

As per claims 2, 9, Robertson discloses wherein: said active data port capable of generating a data transfer request specifying said active data port as said data destination; wherein said data transfer hub generates a read command to said data source and transfers read data to said active data port. (col.11, lines 9-26), (col.12, lines 43-55)

As per claims, 3, 10, Robertson discloses wherein: said data transfer hub generates a pre-write command to said active data port prior to transferring said

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read data to said active port; (col.9, lines 34-45) and said active data port generates an acknowledge signal to said data transfer hub following receipt of said pre-write command when said active data port is ready to receive data. (col.8, lines 53-67)

As per claims 4, 11, Robertson discloses wherein: said active data port capable of generating a data transfer request specifying said active data port as said data source; wherein said data transfer hub generates a read command to said active data port and transfers read data to said data destination. (col.11, lines 9-26), (col.12, lines 43-55)

As per claim 5, Robertson discloses wherein: said interior interface of said active data port supplies a read data command to said exterior interface of said active data port in response to read data command of said data transfer hub. (col.9, line 46-col.10, line 18)

As per claims 6, 12, Robertson discloses wherein: said interior interface of said active data port includes a first-in-first-out buffer; (col.15, lines 47-60) said exterior interface writing data into said first-in-first-out buffer upon generation of said data transfer request by said active data port; (col.8, lines 22-67) and said interior interface supplying data read from said first-in-first-out buffer upon receipt of said read command from said data transfer hub. (col.8, lines 22-67)

As per claims 7, 13, Robertson discloses wherein: said interior interface of said active port generates a stall signal to said exterior interface of said active port when said first-in-first-out buffer is full; (col.14, lines 48-55) and said exterior

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interface refrains from writing data into said first-in-first-out buffer upon receipt of said stall signal. (col.10, lines 42-45)

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kim Huynh whose telephone number is (703)305-5384 or via e-mail addressed to [kim.huynh3@uspto.gov]. The examiner can normally be reached on M-F 8:30AM- 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (703) 305-4815 or via e-mail addressed to [mark.rinehart@uspto.gov]. The fax phone numbers for the organization where this application or proceeding is assigned are (703)872-9306 for regular communications and After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)306-5631.

longer Dances

Kim Huynh

May 31, 2004

Khanh Dang Primary Examiner